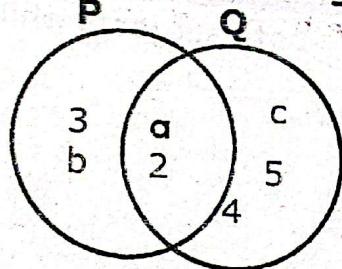


SECTION A (40 MARKS)

1.	Workout: $\begin{array}{r} 2 \quad 0 \\ \times \quad 2 \\ \hline \end{array}$	2.	Write 14014 in words.
3.	Divide: $\begin{array}{r} 3 \\ 4 \end{array} \div \begin{array}{r} 1 \\ 5 \end{array}$	4.	Simplify: $-8 - -3$
5.	Add: years months $\begin{array}{r} 4 \quad 8 \\ + 1 \quad 6 \\ \hline \end{array}$	6.	What is the median of 3, -2, 0, 3 and 4?
7.	Round off 7396 to the nearest hundreds.	8.	Peter has a bundle of ten thousand shilling notes numbered consecutively from BP 534201 to BP 534300. How much money does he have?
9.	Find the sum of all composite numbers less than 10.	10.	A math test which lasted for $2\frac{1}{2}$ Hours ended at 11:18am. When did the test start?

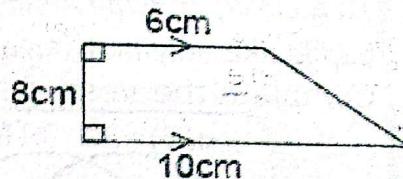


11. Given the Venn diagram.



Find $n(P - Q)$

12. Work out the area of the figure below.



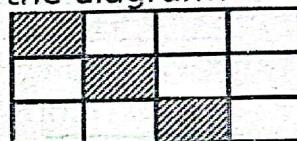
13. What is the next number in;

1, 4, 9, 16, 25, _____

14. If set K has 16 subsets, how many elements has set K?

15. Solve for w if $4w - 6 = 14$

16. What percentage is unshaded on the diagram?

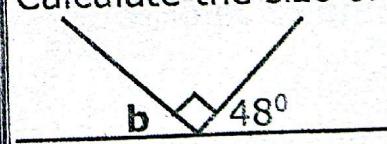


17. With the help of a ruler and a pair of compasses only construct an angle of 45° .

18. In a basket, there are 4 blue, 6 red and 5 green pens. What is the chance of picking a red pen from the basket at random?

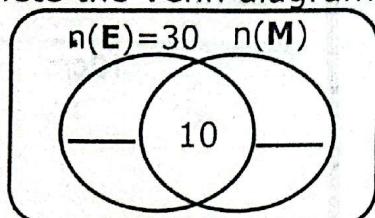
19. Workout: $49 - 54 + 51$

20. Calculate the size of angle b.



SECTION B (60 MARKS)

21. In a class, 30 pupils like English (E), 10 pupils like both subjects while 10 pupils like only mathematics (M). Complete the Venn diagram.



(02 marks)

- (b) If the number of pupils who like English is the same as those who like mathematics, how many pupils are in the class?

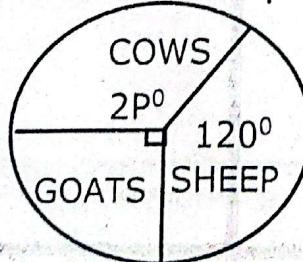
(03 marks)

22. (a) Workout:
$$\begin{array}{r} 103_{\text{five}} \\ - 14_{\text{five}} \\ \hline \end{array}$$

(b) Express 14_{ten} to quinary base

(02 marks)

23. The graph below shows the 720 animals Mr. Matovu's has on his farm. Use it to answer the question.



- (a) Find the value of P.

- (b)

How many more sheep than goats are on the farm?

(02 marks)

(03 marks)

24.	Peter, Mark and Oliva shared Sh. 360,000 in the ratio of 2:3:4 respectively.		
(a)	How much did each get?	(b)	Express Mark's share as a percentage of the total sum.

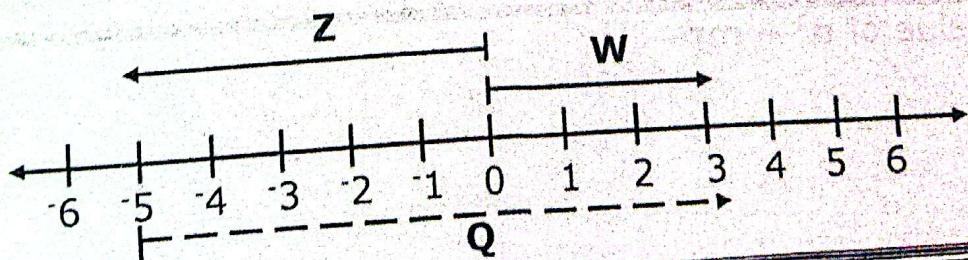
(03 marks)

25. A motorist drove from town A at an average speed of 90km/h for 3hours to town B. He continued to town C at an average speed of 70km/h for 2hours.

(a)	Calculate the total distance covered by the motorist.	(b)	Workout his total time he used when travelling in the whole journey.
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(02 marks) (03 marks)

26. Use the number line below to answer the questions.



(a) Name the integers.

W = _____

Z = _____

Q = _____

(03 marks)

(02 marks)

27. Liz went shopping and bought the following items.

Item	Quantity	Unit Cost	Amount
Rice	2kg	Sh. 5400	Sh. _____
Meat	3kg	Sh. _____	Sh. 45,000
Salt	_____ kg	Sh. 1000 per kg	Sh. 2500

(a) Complete the above table correctly.

(04 marks)

(b) If she came home with Sh. 1700. Find how much she went with.

(02 marks)

28. Given that $m = 4$, $n = 5$ and $r = 3$.

(a) Find the value of mnr .

i)

(02 marks)

ii) Find the value of $n^2 - mr$

(02 marks)



(b)

Find the value of $2n + r^2$.

(02 marks)

29.

(a) Using a ruler and a pair of compasses only construct a square **RQRS** of side 5cm.

(04 marks)

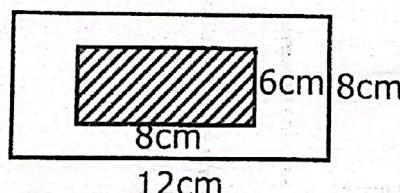
(b)

Measure diagonal **QS**.

(01 mark)

30.

The diagram below shows a table cloth on a dinning table. Study and use it to answer the questions.



(a)

Find the area of the shaded part.

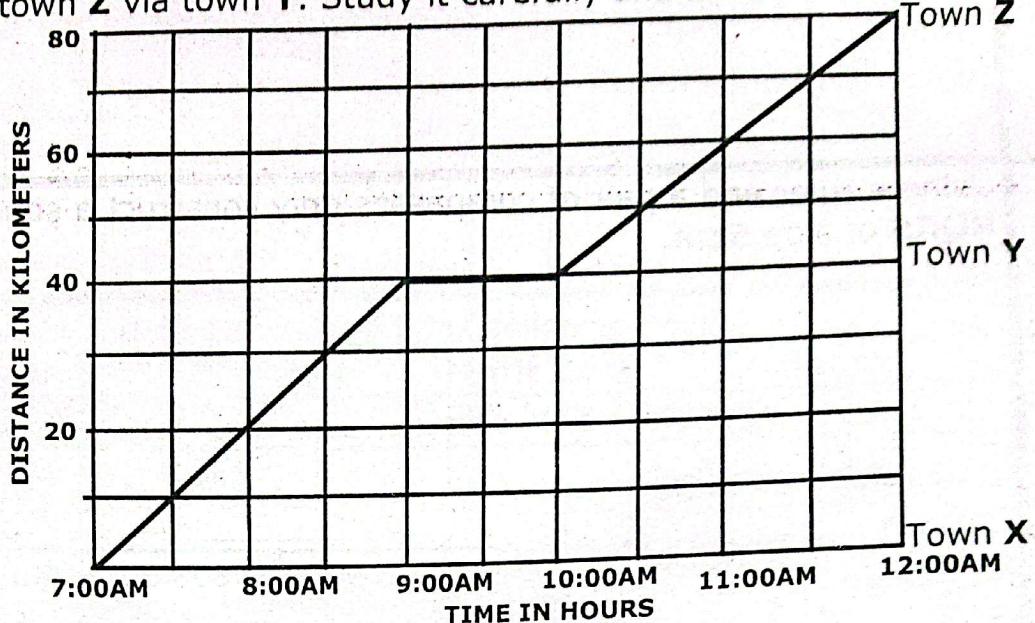
(02 marks)

(b)

Calculate the area of the unshaded part on the diagram.

(03 marks)

31. The travel graph below shows a motorist movement from town X to town Z via town Y. Study it carefully and answer the questions.



- (a) How long did the cyclist rest at town Y?

(01 mark)

- (b) How long was the cyclist's journey?

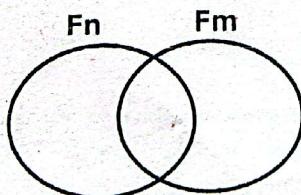
- (c) Calculate the cyclist's speed for the whole journey.

(01 mark)

(02 marks)

32. The factors of n are $\{2_1, 3_1, 7_1\}$ and $m = \{2_1, 3_1, 5_1\}$.

- (a) Show the prime factors on a Venn diagram.



- (b) Find the LCM of n and m .

(03 marks)

(02 marks)